

ASHBEL', S.I.; KHIL', R.G.; YAVOROVSKAYA, Yu.S. (Gor'kiy)

Prevention of occupational poisoning in workers of granozan[?]
plants due to inhalation of unithiol aerosol. Gig. truda i
prof. zab. 4 no.12:16-20 D '60. (MIRA 15:3)

1. Gor'kovskiy gosudarstvennyy nauchno-issledovatel'skiy institut
gigiyeny truda i professional'nykh zabolеваний.
(MERCURY ORGANIC COMPOUNDS--TOXICOLOGY)

ASHBEL', S.I., prof.; SOKOLOVA, V.G.; Prinimala uchastiye: MIRKEYEVA, V.K.

Nystatin treatment of candidosis. Kaz. med. zhur. no.4:61-67 Jl-Ag
'61. (MIRA 15:2)

1. Klinicheskiy otdel (zav. - prof. S.I.Ashbel') Gor'kovskogo
nauchno-issledovatel'skogo instituta gigiyeny truda i profzabolenvaniy.
(FUNGICIDIN) (ANAPHYLAXIS) (MONILIASIS)

ASHBEL', S. I.; KHIL', R. G.; ZAKHAROVA, A. M. (Gor'kiy)

Disorders of the blood circulation in toxic pneumoscleroses. Gig.
truda i prof. zab. no.2:26-32 '62. (MIRA 15:2)

1. Gor'kovskiy institut gigiyeny truda i profbolezney.

(LUNGS--DISEASES)
(BLOOD--CIRCULATION, DISORDERS OF)

ASHHEL', S.I.; KORNAKOVA, A.A.

State of vitamin C and K metabolism in pneumosclerosis caused by
toxic chemicals. Trudy GIGT no.9:136-148 '62. (MIRA 17:9)

ASHBEL', S.I.; GULINA, O.M.; KORILOVA, A.P.

Changes in the blood proteins in pneumosclerosis caused by
toxic chemicals. Trudy GIGT no.9:157-170 '62. (MIRA 17:9)

ASHBEL', S.I., prof.; MIZINOV, N.N., dotsent

United session of the Gorkiy Research Institutes. Sov.zdrav. 21
no.7:45-47 '62. (MIRA 15:8)
(INDUSTRIAL HYGIENE) (PUBLIC HEALTH)

ASHURSKI, F.I.

"long-term effects of chronic intoxication by organomercury compounds."

Report presented at the 2nd All-Union Scientific Conference on the Hygiene and Toxicology of Pesticides, Ministry of Health USSR Committee on the Study and Regulation of New Poisonous Chemicals of the Main State Sanitary Inspection USSR and Kiev Institute of Labor Hygiene and occupational Diseases, Kiev 17-19 Oct 1962.
(Gigiyena i Sanitariya, No. 3, 1963 p. 104-105.)

Kiev Institute of Labor Hygiene and Occupational Diseases.

ASHBEL', Samuil Isayevich; ARKHANGEL'SKAYA, L.N., red.

[Intoxication with mercury-organic poisonous chemicals;
clinical aspects, treatment and prevention] Intoksikatsii
rtut'-organicheskimi iadokhimikatami; klinika, lechenie i
profilaktika. Moskva, Meditsina, 1964. 186 p.

(MLRA 17:7)

ASHBEL', S.I., prof.; POKROVSKAYA, E.A.; SOXOLOVA, V.G., kand.biol.nauk;
VASTIL'KOVA, Z.Ye., kand.med.nauk

Effectiveness of oletetrin treatment of infectious inflammatory
diseases of respiratory organs and intestines. Sov.med. 28
no.12:91-95 D '65. (MIRA 18:12)

1. Klinicheskiy otdel (zav. - prof. S.I.Ashbel') Gor'kovskogo
nauchno-issledovatel'skogo instituta gigiyeny truda i professio-
nal'nykh zabolеваний i kafedra detskikh infektsiy (zav. - dotsent
N.N.Fayerman) Gor'kovskogo meditsinskogo instituta.

L 46196-66 EWT(1) RO

ACC NR: AR6008637 SOURCE CODE: UR/0397/65/000/019/0044/0044

AUTHOR: Ashbel', S. I.; Khil', R. G.; Shatrova, S. P.

35

B

TITLE: Treatment of occupational lead poisoning with a Ca Na₂ EDTA aerosol

SOURCE: Ref. zh. Farmakologiya. Toksikologiya, Abs. 19. 54.338

REF SOURCE: Gigiyens truda i prof. zabolеваний, no. 3, 1965, 24-28

TOPIC TAGS: industrial medicine, poison effect, lead, chemotherapy, aerosol

ABSTRACT: 60 workers engaged for 1 to 13 yrs in welding and straightening of automobile bodies using a lead solder and suffering from light or moderate cases of lead poisoning were treated in a clinic with aerosol inhalation of Ca Na₂ EDTA. For a period of 7 to 10 days patients received daily two aerosol inhalation treatments of 5 ml of a 10% Ca Na₂ EDTA solution; 100 ml of a 10% Ca Na₂ EDTA solution (7 to 10 g) were used for a course of treatment. A therapeutic effect expressed in the form of a reduction or disappearance of intoxication symptoms was found in all patients. Ca Na₂ EDTA was well tolerated by patients, was quickly drawn into the respiratory passages, was found to

Card 1/2

UDC: 615.92

ASHCHEPKOV, YE. A.

ASHCHEPKOV, YE. A. - D-r. iskusstv. nauk prof.

Novosibirskiy inzhenerno stroitel'nyy institut im. V. V. Kuybysheva Kvoprosu
o dekore v narodnom zodchestve sibiri Page 80

SO: Collection of Annotations of Scientific Research Work on Construction, completed
in 1950.
Moscow, 1951

ASHCHEPKOV, YEVGENIY, ANDREYEVICH;

SHEPELEV, Aleksandr Grigor'yevich, ASHCHEPKOV, Yevgeniy Andreyevich;
KOZHENIKOV, Savva Yelizarovich; NEMIHA, Kirill L'vovich; KRAYNIK,
Abram Usherovich; SINAGOV, V.N., red.; MAZUROVA, A.P., tekhn.red.

[With our friends; impressions of Siberians visiting people's
democracies] U Nashikh druzei; vpechatlenia sibiriakov, pobyvavshikh
v stranakh narodnoi demokratii. [Novosibirsk] Novosibirskoe knishnoe
izd-vo, 1957. 127 p. (MIRA 10:12)

(China--Description and travel)
(Czechoslovakia--Description and travel)
(Germany, East--Description and travel)

ASHCHEPKOV, Ye. A.

"Osobennosti razvitiya arkhitektury narodnogo zhilishcha Sibiri."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences,
Moscow, 3-10 Aug 64.

ASHCHEULOV, A.G.

PANKRATOV, I.F., kandidat yuridicheskikh nauk.

Legal problems concerning wages of collective farm cattle breeders in Kazakhstan ("Wages of collective farm cattle breeders in Kazakhstan, according to Soviet legislation." S.K.Shaibekov, A.G.Ashcheulov. Reviewed by I.F.Pankratov). Vest. AN Kazakh.SSR 11 no.3:94-97 Mr '55. (MIRA 8:6)

(Kazakhstan--Collective farms) (Kazakhstan--Wages)
(Shaibekov, S.K.) (Ashcheulov, A.G.)

ASHCHEULOV, A.T.

3598. ASHCHEULOV, A.T. Oplata Truda Kolkhoznikov-Zhivotnovodov Kazakhstana
(Po Sovetskому Zakonodatel'stву). Alma-Ata, Izd-vo Akad. Nauk Kaz SSR,
1954. 95s. 20sm (Akad Nauk Kazakh. SSR. Sektor Prava) 5,000ekz. 2r 50k-
(54-57164) P 331.20:636 (584.6) 4 kn. Let No. 3.

SO: Knishnaya Letopis', Vol. 3, 1955

ASHCHEULOV, A. T.

USSR/Miscellaneous - Wage laws

Card 1/1 : Pub. 123 - 3/13

Authors : Ashcheulov, A. T., fellow of the Law Section of the Kazakh Academy
of Sciences

Title : Legal questions concerning the wages of workers on Kazakhstan collective
stock farms

Periodical : Vest. AN Kaz. SSR, 11/2, 31-43, Feb 1954

Abstract : An analysis of the legal factors affecting the pay of workers on stock
farms in Kazakhstan, such as areas involved, profits of the organization
and the basic laws governing the situation. Table.

Institution :

Submitted :

ASHCHEULOV, Andrey Tikhonovich; TOVMA, Dmitriy Titovich; TVERDOV, A.A., red.;
SHCHEDRINA, N.L., tekhn. red.

[Legal regulation of wages in communal livestock raising on
collective farms] Pravovoe regulirovanie oplaty trudy v
obshchestvennom zhivotnovodstve kolkhozov. Moskva, Gos. izd-vo
jurid. lit-ry, 1957. 98 p. (MIRA 11:12)

(Wages)
(Stock and stockbreeding)

ASHCHEULOV, Andrey Tikhonovich

[Distribution of income on collective farms] Raspredelenie
dochodov v kolkhozakh. Moskva, Gos.izd-vo iurid.lit-ry,
1961. 92 p. (MIRA 15:8)
(Collective farms--Income distribution)

ASHCHEULOV, Andrey Tikhonovich; BOCHAROV, Andrey Tikhonovich;
HYGALIN, A.G., red.; SHCHEDRINA, N.L., tekhn. red.

[Wages for collective-farm managerial workers, specialists and
machine operators] Oplata truda rukovoditeliashchikh rabotnikov,
spetsialistov i mekhanizatorov kolkhozov. Moskva, Gosizdat,
1962. 76 p.
(Collective farms--Income distribution)

ASHCHEULOV, A.T.

Structure and Physical Properties of Thin Metallic Layers. A. T. Ach-
iekuov (*Izv. Akad. Nauk (Progress Phys., Sci.)*, 1934, **20**, 481-512; *Zh. Tekhnicheskoy Fiziki*, 1936, **24**, 1920). A review. A discusses the methods of preparation and determination of the structure, and the electrical conductivity and optical properties of thin metallic layers. 94 references.

ASA-51A METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320018-4"

The nature of the anomalous physical properties of thin silver films. *Acta Physicochimica Acad. Polon. Sci.* 1937, **U. R. S. S. 24**, 125-8 (1939) (in English).—Ag was evapd. in rays onto glass, fused quartz, KCl and NaCl in layers of varying thicknesses. The absorption of transmitted light by these films was then detd. as a function of the wave length. When the Ag was deposited on a base kept at room temp., the max. absorption for thin films (1 m μ) was at a wave length of 430-443 m μ ; with increase in the thickness of the layer the max. absorption shifts toward longer wave lengths. When the base was heated to 300-350° during the deposition, Ag layers 10-15 m μ thick were required to give max. absorption at a wave length of approx. 440 m μ . Such films on standing gradually revert to the condition of the cold-deposited ones; vapors of I or Br accelerate this change, without forming AgI or AgBr in appreciable amounts. The results prove that both types of films have a colloidal rather than an amorphous structure.

T. H. Dunkelberger

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320018-4"

ASHCHEULOV, A.T.; PAVLICHUK, T.A.; KHUKHRINA, M.D.

Relation of the resolving power of photographic materials to the
lens aperture. Usp.nauch.fot.no.4:88-105 '55. (MLPA 9:4)
(Photographic optics)

ASHCHEULOV, A.T.; KHUKHRINA, M.D.

Study of the resolving power of photographic materials in the visible and ultraviolet regions of the spectrum by means of interference. Usp.nauch.fet. no.4:106-110 '55. (MLRA 9:4)
(Photographic optics) (Interferometer)

ASHCHEULOV, A.T.; PAVLICHUK, T.A.; KHUKHRINA, M.D.

New methods for testing photographic objectives. Opt.-mekh.prom.
25 no.5:12-15 My '58. (MIRA 11:9)
(Lenses, Photographic--Testing)

ASHCHEULOV, A.T.; PAVLICHUK, T.A.; KHUKHRINA, M.D.

New methods for checking photographic objectives. Opt.-mekh.prom.
[25] no.3:3-8 Mr '58. (MIRA 11:9)
(Lenses, Photographic--Testing)

ASHCHEULOV, A.T.

Use of the Fourier integral in investigating the properties of the
optical and photographic image. Zhur.nauch.i prikl.fot.i kin. 5
no.2:146-157 Mr-Ap '60. (MIRA 14:5)
(Fourier's series) (Photographic sensitometry)

ASHCHEULOV, A.

"Optical image assessment using frequency response techniques."
"Tables of optical frequency response for the cases of spherical
aberration and the coma." Reviewed by A. Ashcheulov. Opt.
i spektr. 11 no.2:295-296 Ag '61. (MIRA 14:8)
(Optics)

ASHCHEULOV, A.T.; STOZHAROVA, K.A.

Modification of the characteristics of the picture by the
method of filtration of the spatial frequencies. Zhur. nauch.
i prikl. fot. i kin. 8 no.4:293-302 Jl-Ag '63.

(MIRA 16:7)

1. Gosudarstvennyy opticheskiy institut imeni S.I. Vavilova.
(Photography)

ACCESSION NR: AP3003608

S/0077/63/008/004/0293/0302

AUTHORS: Ashcheulov, A. T.; Stozharova, K. A.

TITLE: Change in properties of photographs by filtering out spatial frequencies

SOURCE: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, v. 8, no. 4, 1963, 293-302

TOPIC TAGS: optical method, photographic image, phase filter, camera, point source, aberration free objective, frequency filtering, resolution limit, plane wave illumination, objective lens

ABSTRACT: An optical method for improving photographic images has been suggested which consists of placing an amplitude or phase filter between the object and the light path to the camera, thus changing the properties of the image itself. Both self-luminous and nonluminous objects are considered, and the exposure distribution of a point source and its frequency-contrast characteristic for an aberration free objective discussed analytically. A spatial frequency filtering system is considered, capable of filtering out all high frequencies. This is shown to decrease the granular nature of the photograph, to remove the screen structure, and to emphasize

Card 1/2

ACCESSION NR: AP3003608

the periodic structure on the resolution limits. This, however, generates problems of its own. For example, it lowers the contrast and sharpness of the photograph. A simple experiment is performed in an attempt to change the characteristics of the photograph by projection printing and by plane wave illumination. A short review of existing publications discusses both geometric changes in the objective lens and applications of amplitude and phase filters. Orig. art. has: 16 equations and 11 figures.

ASSOCIATION: Gosudarstvennyy opticheskiy institut im. S. I. Vavilova (State Optical Institute)

SUBMITTED: 17Jan63

DATE ACQ: 02Aug63

ENCL: 00

SUB CCDE: OP

NO REF Sov: 002

OTHER: 006

Cord 2/2

ASHCHEULOV, A.T. [deceased]; BEREZIN, N.P.

Measurement of the frequency-contrast characteristics of photographic
lenses. Usp.nauch.fot. 10:15-22 '64. (MIRA 17:10)

ASHCHEULOV, N.K.

Objective of the state testing laboratories for official
supervision of standards and measuring equipment. Izm. tekhn.
no. 412-17 Ap '65. (MTRA 28:7)

ASHCHEULOV, N.K.

Mobile testing laboratory. Izm.tekh.no.5:64-66 S-0 '56. (MLRA 10:2)
(Engineering laboratories)
(Measuring instruments--Testing)

AGALETSKIY, P.N.; ASKACHEVICH, N.E.; NIKULIN, V.P.

Classification of measurements and the evaluation of the precision of measuring instruments. Izm. tekhn. no. 3:5-9 Mr '64
(MIRA 17:8)

ACCESSION NR: AP4010235

S/0054/63/000/004/0085/0091

AUTHORS: Kondrat'yev, K. Ya.; Burgova, M. P.; Ashcheulov, S. V.

TITLE: The distribution of energy in the spectrum of thermal radiation in the atmosphere

SOURCE: Leningrad. Universitet. Vestnik. Seriya fiziki i khimii, vyp. 4, 1963
85-91

TOPIC TAGS: energy, energy distribution spectrum, thermal radiation, thermal radiation spectrum, atmosphere, atmospheric thermal radiation, spectrometer, black body, gray body

ABSTRACT: This work was undertaken because of inadequacy of existing data, the inadequacy being due chiefly to the low spectral resolution obtained in measuring thermal radiation in the atmosphere and to the lack of sufficient data for comparison with theoretical computations. The data for the present report were obtained chiefly by adaptation of the high-sensitivity portable atmospheric spectrometer (PMS-1) proposed by R. M. Goody (Quart. J. Roy. meteor. soc., 83, 517, 1957) and R. M. Goody and W. T. Roach (Quart. J. Roy. meteor. soc., 84, 1939, 1958).

Card 1/2

ACCESSION NR: AP4010235

The authors suggest improvements in the instrument by: 1) decreasing the number of mirrors to diminish loss in the focusing system and in thermostatic control; 2) addition of a second gray body to speed up calibration; 3) increasing the stability of the incandescent source; and 4) using a monochromator of greater luminosity. Observations included scanning the spectrum at various angles above the horizon (from 0 to 90°), scanning at a fixed wave length for a given angle and azimuth, and measuring the radiation drop at sky-cloud interfaces and with clouds. It was found that accurate calibration is very essential for precise results. A number of graphs have been plotted to illustrate the spectral distributions of wave lengths ranging from 4.5 to 14.5 millimicrons. These values have been compared with a number of data of other authors and found to be in good agreement. It is thought, however, that improvements in the instrument as suggested by the authors will produce more reliable data and will allow better comparison of experimental and theoretical results. Orig. art. has: 8 figures and 6 formulas.

ASSOCIATION: none [probably Leningradskiy gosudarstvennykh universitet (Leningrad State University)]

SUBMITTED: 25Dec62

SUB CODE: AS, PH
Card 2/2

DATE ACQ: 03Feb64

NO REF Sov: 000

ENCL: 00

OTHER: 008

ASHCHEULOV, S. V.; STYRO, D. B.

"Comparison of measured and calculated infrared emission spectrum of the atmosphere."

report presented at the Atmospheric Radiation Symp, Leningrad, 5-12 Aug 64.

KONDRAT'YEV, K.Ya.; ASHCHAKULOV, S.V.; STYRO, D.B.

Comparison of observed and computed spectra of radiation from
the atmosphere. Vest.LGU 20 no.22:80-86 '65,

(MIRA 18:12)

L 145646-65	EWG(r)/EMT(1)	Po-5/Pao-?	CW	
ACCESSION NR:	UR/0361/65/001/002/0175/0192			
AUTHOR: Kondratenko, V. Ye.; Badinov, I. Ya.; Ashcheulov, S. V.; Andreyev, S. D.				34 35 B
TITLE: Equipment for studying the infrared absorption spectrum and thermal radiation of the atmosphere				
SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 1, no. 2, 1965, 175-192				
TOPIC TAGS: radiation transfer, atmospheric radiation, infrared radiation, thermal radiation, spectrophotometer, photoelectric tracking system, monochromator, hygrometer, airborne spectrometer				
ABSTRACT: Equipment for measuring the spectral characteristics of the atmosphere is described; this included an automatic infrared solar spectrophotometer, an infrared solar hygrometer, automatic airborne solar spectrometers, and atmospheric spectrophotometers for field use. The automatic infrared solar spectrophotometer is equipped with a programming device, a photoelectric tracking system, and electromechanical amplifiers which keep the monochromator constantly focused within 30" of the center of the solar disk. The sun was the source of radiation.				QM
Card 1/2				

L 45646-65				
ACCESSION NR:	AP5009235			
The error in measurement of the solar spectra was 2%. Water vapor is the principal variable component of the atmosphere with absorption bands in the infrared region of the spectrum. The measurement of the average daily vapor content in the atmosphere is also required for interpretation of the measurements of the spectral transparency of the atmosphere. The solar hygrometer used for such measurements is a two-channel photometer which focuses on the sun and measures the radiation intensity within and outside the absorption band. Schematics and photographs are given for all instruments. Orig. art. has: 1 figures [14]				
ASSOCIATION Leningradskiy Gosudarstvennyy Universitet (Leningrad State University)				
SUBMITTED: 14Jul64	INCL: 00	SUB CODE: ES		
NO REF Sov: 021	OTHER: 026	ATD PRESS: 3244		
Cord 2/2 MB				

L 52749-65	EST	11/ENG(r)	Pe-5/Pan-2	GW			
ACCESSION NR: AP5013174					UR/0362/65/001/004/0363/0376	27	38
AUTHOR: Kondrat'yev, K. Ya., Badilov, I. Ya., Ashchenkov, S. V., Andreyev, S. D.					B		
TITLE: Some results of surface measurements of atmospheric infrared absorption and thermal radiation spectra							
SOURCE: AN SSSR. Izvestiya, Fizika atmosfery i okeana, v. 1, no. 4, 1965, 363-376							
TOPIC TAGS: atmospheric infrared absorption, atmospheric infrared emission, atmospheric optical thickness, water vapor absorption, aerosol attenuation, solar infrared radiation, surface radiation measurement, thermal radiation spectrum ✓							
ABSTRACT: Using 12 Soviet and 28 Western references, beginning with the paper by W. M. Elsasser (Note on atmospheric absorption caused by the rotational water band, Phys. Rev., 53, no. 9, 1938), the authors collected and analyzed the data from surface measurements of the infrared transparency and heat radiation of the entire thickness of the atmosphere within its 8-12 μ "transparency window" and in the regions adjacent to this band of wavelengths. They determined the magnitude of the atmospheric optical thickness for various wavelengths and divided it into components determining the influence of various factors attenuating long wave radiations (water vapor, aerosol attenuation). Data characterizing the geographical changes in the infrared transparency of the entire atmosphere were obtained.							
Card 1, 2							

L 52749-65

ACCESSION NR: AP5013174

atmosphere are also correlated. The paper also reports on determinations of the absolute spectra of the solar radiation above the atmosphere from the measured values of the incident radiation and atmospheric absorption at the surface of the earth, and compares them with the previously known data. A study of the energy distribution within the spectrum of the atmospheric infrared radiation is also made. An discussion of the characteristics of the variations in the spectral composition of atmospheric radiation and a general comparison of all the experimental results with theoretical predictions. Although there is a generally fair agreement, the following tasks need further studies:
1) First among the future tasks is the construction of a model theory with the aim of carrying out the study of the fine structure of the absorption and emission spectra.
Next, the terrestrial results should be completed by data similar to those obtained in the upper layers of the atmosphere and in the free space.

{081}

ASSOCIATION: Leningradskiy gosudarstvennyy universitet /Leningrad State University

SUBMITTED: 14Jul64

ENC 1 06

SUB CODE: ES, 68

NO REF SOV: 012

OTHER: 028

ATD PRESS: 4013

for
2/2

L 16980-66 EWT(1) QW

ACC NR: AP6002348

SOURCE CODE: UR/0054/65/000/004/0080/0086

AUTHORS: Kondrat'yev, K. Ya.; Ashcheulov, S. V.; Styro, D. B.

39
38
B

ORG: none

TITLE: A comparison of measured and computed spectra of natural atmospheric radiation

SOURCE: Leningrad. Universitet. Vestnik. Seriya fiziki i khimii, no. 4, 1965, 80-86

TOPIC TAGS: atmospheric radiation, radiation spectrum, spectrophotometer, black body radiation

ABSTRACT: A portable IR spectrophotometer for measuring natural atmospheric radiation was developed at the Department of Atmospheric Physics of Leningrad University. The device is described briefly in the paper, and the optical system is illustrated in Fig. 1. The principal difficulty in using the instrument was calibration; measurement of small values also proved to be a problem. Measured values were compared with computed values, and it was found that the radiation bands of water vapor (6.3μ), carbon dioxide (15μ), and, in the range

Card 1/3

UDC: 551.521.32

L 16980-66

ACC NR: AP6002348

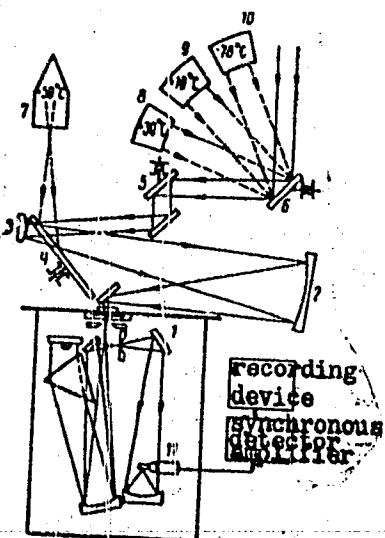


Fig. 1. Optical system
of an IR field spectrophotometer. 1 - Prism
monochromator; 2,3 -
focusing mirrors;
4 - mirror modulator;
5,6 - coelostat mirror;
7 - referent black body;
8,9,10 - calibrating
gray bodies; 11 - optical-
acoustical receiver.

Card 2/3

L 16980-66
ACC NR: AP5002348

from 15 to 25 μ , atmospheric radiation coincide with black body values. This is explained by the almost perfect transparency of the atmosphere in these parts of the spectrum. In the range 8 to 13 μ , the values differ appreciably, the difference declining as the angle of observation approaches the horizontal. It is concluded that theoretical considerations cannot properly evaluate the effect of the numerous emitters affecting the value of total radiation in the latter spectral range. Orig. art. has: 5 figures, 1 table, and 7 formulas.

SUB CODE: C4/ SUBM DATE: 100ct64/ ORIG REF: 003/ OTH REF: 008

Card 3/3 vmb

ASHCHEULOV, Vladimir Petrovich; ANTONOV, S.I., inzh., spetsred.; FRISHMAN,
Z.S., red. Izd-va; KOTLYAKOVA, O.I., tekhn.red.

[Repairing the electrical equipment of ships] Remont elektro-
oborudovaniia sudov. Leningrad, Izd-vo "Morskoi transport,"
1959. 237 p. (MIMA 12:12)
(Electricity on ships--Maintenance and repair)

ALEKSEYEV, A.Ye.; ASHCHEULOV, V.P., inzh.; MAKSIMOV, Yu.I., inzh.; MERZLYUTIN, Yu.B., inzh.; MIKHAYLOV, V.A., kand.tekhn.nauk; NORNEVSKIY, B.I., kand.tekhn.nauk

System of self-excitation and compounding for synchronous generators used on ships. Sudostroenie 25 no.1:58-62 Ja '59. (MIRA 12:3)

1. Chlen - korrespondent AN SSSR (for Alekseyev).
(Electric generators) (Electricity on ships)

ASHCHEULova, Ye.N.; ROZENSHTRAUKH, L.V.; TRUBETSKOY, A.V.

Electrocardiographic indices and oxygen requirement of the myocardium
under artificial circulation. Eksper. khir. 5 no.6:38-42 N-D '60,

(HEART-MUSCLE) (BLOOD-CIRCULATION, ARTIFICIAL)
(MIRA 14:2)

ROZENSHTRAUKH, L.V.; ASHCHELOVA, Ye.N.

Experiments with potassium salts of acids participating in
Krebs cycle as possible agents inducing cardioplegia. Eksper.
khir. i anest. 8 no.3:28-29 My-Je'63 (MIRA 17:1)

1. Iz kafedry fiziologii zhivotnykh i cheloveka Moskovskogo
universiteta imeni Lomonosova.

TKESHELASHVILI, N.K., kand.tekhn.nauk; ASHCHIAN, O.A., kand.tekhn.nauk;
OSTASHVILI, T.I.

Mechanical injuries to tea leaves and investigating their
effect on the quality of production for the purpose of im-
proving designs of plucking machinery. Trudy VNIICHP no.1:71-82
'58. (MIRA 12:5)

(Tea machinery)

ASHCHIAN, O.A., kand.tekhn.nauk

New production system for green leaf tea and the Ashchian-Lominadze fixation machine. Trudy VNIICHP no.1:105-115 '58.
(MIRA 12:5)
(Tea machinery)

ASHCHIYAN, A.

The position of economist being established is on state farms.
F.n. SSSR 23 no.9:77 S '62. (MIRA 15:9)

1. Nachal'nik upravleniya Ministerstva finansov Gruzinskoy SSR.
(Georgia--State farms—Officials and employees)

ASHCHIYAN

First results. Fin. SSSR 37 no.1:75-76 Ja '63.

(MIRA 16:2)

1. Nachal'nik upravleniya Ministerstva finansov Fruzinskoy SSR.
(Georgia—Agriculture—Finance)

L-29982-66 EWT(1)/EEC(k)-2 IJP(c)

ACC NR: AP6012483

SOURCE CODE: UR/0181/66/003/004/1183/1192

AUTHORS: Ashe, M.; Bondar, V. M.; Sarbey, O. G.

ORG: Institute of Physics, AN UkrSSR, Kiev (Institut fiziki AN UkrSSR) *7.4 B*

TITLE: Dependence of the piezoresistance of germanium on the electric field

SOURCE: Fizika tverdogo tela, v. 8, no. 4, 1966, 1188-1192

TOPIC TAGS: germanium, single crystal, piezoelectric property, carrier scattering, pressure effect, electric field, semiconductor band structure

ABSTRACT: The purpose of the investigation was to check experimentally, in the case of germanium, a hypothesis advanced in an earlier paper (Phys. St. Sol. v. 11, 255, 1965) that in semiconductors in which the intervalley scattering does not play an important role in the electron-lattice energy balance, the piezoresistance should have a nonmonotonic dependence on the field. To this end the authors investigated samples of n-type germanium, cut along the <111> direction from a single crystal ingot with electron density $3.25 \times 10^{13} \text{ cm}^{-3}$ and mobility $2.6 \times 10^4 \text{ cm}^2/\text{v-sec}$, at 77K. The electric field was applied along the crystal and its deformation was effected in the same direction. The field was applied

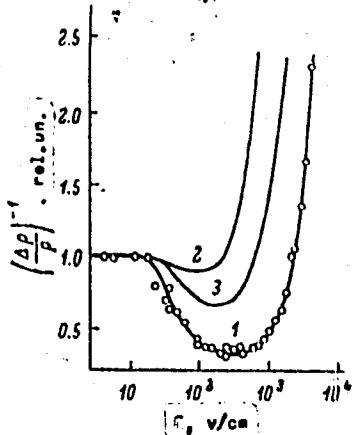
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ACC NR: AP6012483

Fig. 1. Dependence of piezoresistance of n-type G on the electric field intensity. 1 -- Experimental, 2 and 3 -- theoretical, based on the assumption that the temperatures and electron concentrations in the nondeformed state of the crystal are the same (2) or different (3) in all the valleys.



in the form of rectangular pulses of 0.2 μ sec duration and repetition frequency 10 -- 15 cps. The dependence of the resistance on the pressure was linear up to 300 kg/cm^2 and the experiments were carried out in the linearity region. The results (Fig. 1) confirm the theoretically deduced nonmonotonicity of the piezoresistance. This confirmation, however, is only qualitative, and quantitatively the minimum of theoretical curve, and the experimental change in the piezoresistance due to the

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field is larger than called for by the theory. The discrepancies are ascribed to the simplifying assumptions made during the calculation. Orig. art. has: 4 figures and 3 formulas.

SUB CODE: 20/ SUBM DATE: 24Aug65/ ORIG REF: 001/ OTH REF: 007

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LEBEDEV, M.N.

LEBEDEV, Mikhail Nikolayevich, kandidat tekhnicheskikh nauk; ASHEKO, Sof'ya
Mikhailovna, kandidat tekhnicheskikh nauk; ZMIYENKO, Sergey Mitro-
fanovich, kandidat tekhnicheskikh nauk; KRYUKOV, Georgiy Nikolayevich,
kandidat tekhnicheskikh nauk; SIDOROV, Nikolay Nikolayevich, kandidat
tekhnicheskikh nauk; PAUL', V.P., inzhener, redaktor; YUDZON, D.M.,
tekhnicheskiy redaktor

[Building] Stroitel'noe proizvodstvo. Pod red. M.N.Lebedeva. 2-e
perer. izd. Moskva, Gos. transportnoe zheleznodor. izd-vo, 1954.
489 p.

(Building)

KUVAYTSEV, Ivan Fedorovich, kandidat tekhnicheskikh nauk; ASHKHO, Sof'ya Mikhaylovna, kandidat tekhnicheskikh nauk; MANAKIN, N.V., redaktor; KOLAN, F.L., tekhnicheskiy redaktor

[Lubricating materials and lubricants of roadbuilding machinery]
Smazochnye materialy i smazka dorozhnostroitel'nykh mashin. Moskva,
Nauchno-tekhn. izd-vo avtotransp. lit-ry, 1956. 62 p. (MLRA 9:10)
(Road machinery) (Lubrication and lubricants)

ASHEKO, S.M., dots., kand. tekhn. nauk; KLAUZ, P.L., dots., kand. tekhn. nauk; KUROVA, A.V., red.; NIKOL'SKAYA, K.G., tekhn. red.
KLEYMAN, L.G., tekhn. red.

[Repair of road and construction machinery] Remont pute-vykh i stroitel'nykh mashin; uchebnoe posobie po distsipline "Tekhnologiya mashinostroeniia i remont mashin" dlia studentov V kursa spetsial'nosti "Stroitel'nye i dorozhnye mashiny i oborudovanie." Moskva, zaochnyi in-t inzhenerov zhel-dor. transp., 1962. 108 p. (MIRA 16:2)

(Road machinery—Maintenance and repair)
(Construction equipment—Maintenance and repair)

ASHEKO, S.M.; VEKSLER, V.M.; KLAUZ, P.L.; SOKOLOV, K.A.; IGNATOVICH,
A.M., prof., retsenzent; SMIRNOV, V.S., kand. tekhn. nauk,
retsenzent; KRIVICH, P.S., inzh., retsenzent; ABRAGAM, S.R.,
inzh., red.; VOROTNIKOVA, L.F., tekhn. red.

[Operation of road, construction, and loading and unloading
machines] Ekspluatatsiya putevykh, stroitel'nykh i pogruzochno-
razgruzochnykh mashin. [By] S.M. Asheko. i dr. Moskva, Trans-
zheldorizdat, 1963. 302 p. (MIRA 16:10)
(Construction equipment)

ASHEKO, S.M., kand. tekhn. nauk, docent

Slingers and their application. Sber. trud. LIIZHT no.201:
93-107 '63. (MIRA 17:12)

ASHENKAMPF, L., inzh.

Supports for ground-level water lines. Na stroi. Ros. 3 no.10:
19 0 '62. (MIRA 16:6)

1. Proyektchnaya kontora Noril'skogo kombinata.
(Aqueducts)

ASPELIN, N.S.; ANAN'YEV, A.A.; GROZNOV, S.R.; GRIGOR'YEV, P.Ya.;
~~TROFIMOV~~, V.I.; SHTEMYAN, R.A.

[A cookbook] Kniga dlja povara. Moskva, Gostorgisdat, 1952.
355 p. (MLRA 6:12)
(Cookery for institutions, etc.)

ASHEL' ROD, R.S.
777

*Rapid Determination of Boric Acid in Nickel-Plating Baths. R. S. Ashel' rod and N. L. Ershimova (Zavodskaya Lab., 1934, 8, 121-122; C. Abs., 1935, 20, 70).—[In Russian.] Concentrate on a water-bath 10-22 c.c. of Ni bath liquor, add dropwise with stirring 40-50 c.c. 95° alcohol, cool, filter from inorganic salts, wash with alcohol, add to the filtrate an excess of 20% NaOH (up to 10 c.c.), evaporate to dryness, heat over a small flame to expel

NH₃, and decompose any organic matter (e.g. citric acid), dissolve the residue in water, filter, make acid to methyl orange with HCl, boil to expel any absorbed CO₂, dilute to about 100 c.c., neutralize to a pink tint with methyl orange, add 20 c.c. of previously neutralized glycerol or some mannitol with 0.1N-NaOH against phenolphthalein.—S. G.

APPENDIX A METALLURGICAL LITERATURE CLASSIFICATION

FROM BORISOV

CLASSIFICATION OF THE INDEX

ASHEL-ROD, R.S.

PROCESSES AND PRODUCTS USED

***Electrolytic Cleaning in Alkaline Solutions.** R. S. Ashburn and M. E. Ershinova (*Vestnik Metalloprerya vleniya* (*Messenger Metal Ind.*), 1936, 16, (16), 82-84). [In Russian.] In the electrolytic degreasing of brass in an alkaline degreasing bath the work becomes covered with a silvery film of an alloy of copper 30-40, zinc 50-63, and iron 5-9%, when the bath has been in use for some time. This effect is attributed to dissolution of the iron anodes and of pieces of brass which had fallen to the bottom of the bath. With more than 15 gm./litre of sodium hydroxide degreasing is accelerated, but becomes more rapidly contaminated and films appear on the work. Addition of 5 gm./litre of sodium phosphate tends to reduce the solubility of iron sediments while 10 gm./litre of sodium silicate improves the work of the bath in depth, 0.3 gm./litre of dextrin accelerates degreasing, and 0.7 gm./litre of sodium tartrate improves the degreasing of deeply recessed sections. The usual composition of the bath is sodium hydroxide 16, sodium carbonate 10, sodium phosphate 5, and dextrin 0.3 gm./litre.—D. N. S.

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1951-52 METALLURGICAL LITERATURE CLASSIFICATION

LEADER BONDARY

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CIA-RDP86-00513R000102320018-4"

IOVCHUK, M.T., red.; KRUZHKOVA, V.S.; PRUDENSKIY, G.A.; RUTKEVICH, M.N.,
prof.; IGITKHANYAN, M.Kh., kand.filosof.nauk; KOGAN, L.N.,
kand.filosof.nauk; ASHEKO, L., red.; CHEREMNYKH, I., mladshiy
red.; ULANOVA, L., tekhn.red.

[Development of the cultural and technological level of the
Soviet working class] Podzem'ye kul'turno-tehnicheskogo urovnia
sovetskogo rabochego klassa. Moskva, Izd-vo sotsial'no-ekon.
lit-ry, 1961. 550 p. (MIRA 14:6)

1. Chleny-korrespondenty AN SSSR (for Iovchuk, Krushkov, Prudenskiy).
(Labor and laboring classes)

ASHENKOV, A.

"Modern Submarines," a chapter from the book Problems in the Utilization of Atomic Energy, the second revised edition of a collection of articles, published in 1956, Moscow, USSR

A. ASHENKOV, Eng. Col. and KUDRYASILEV, Eng. Lt. Col.

"Aircraft Carriers," from the book Modern Military Technology, 1956, page, 120.

Transletion 1114585

ASHEPA, M.B.; BANNOV, A.T.

Elimination of foot-and-mouth disease in winter. Veterinarija
41 no.5:38-39 My '64. (MIFI 18:3)

1. Krasnoyarskoye drayevoye upravleniye proizvodstva i zagotovok
sel'skokhozyaystvennykh produktov.

POPOVA, N.L.; ASHEROVA, M.Ye.

Effect of a disturbance of the nutrition schedule on some
indices of lipoid metabolism. Vop. pit 21 no. 4:20-25 Jl-Mg '62.
(MIRA 15:12)

1. Iz kliniki fakul'tetskoy terapii (zav. - prof. I.B.
Likhtsiyer) meditsinskogo instituta, Dushanbe.
(NUTRITION)(LIPID METABOLISM)

ASHERSON, M.

Community workers as active assistants. Okhr. truda i sots,
strakh. 6 no.2:11-12 F '63. (MIRA 16:2)

1. Zaveduyushchiy yuridicheskoy konsul'tatsiyey Ferganskogo
oblastnogo soveta professional'nykh scyusov, Fergana, Uzbekskoy
SSR.

(Fergana--Legal aid)

ASHERSON, M. (Fergana); ALEKSEYEV, M.; ZAMKOVSKIY, V., liteyshchik; BYKOVA, V. (Kiyev); ZUBKO, A.; DUKHNEVICH, B. (Vil'nyus)

On good people. Sov. profsoiuzy 19 no.11:19 Je '63.

(MIRA 16:8)

1. Literaturnyy sotrudnik mnogotirazhnoy gazety fabriki "Skorokhod", Leningrad (for Alekseyeva). 2. Mekhanicheskiy zavod "Santekhprom", Simferopol' (for Zamkovskiy). 3. Nachal'nik otdeleniya Gosudarstvennoy avtomobil'noy inspeksii Sovetskogo rayona, Kuybyshev (for Zubko).
(Trade unions—Officers)

ZIMA, Ivan Mitrofanovich; MALYUGIN, Timofey Timofeyevich; KURUSHIN, F.M.,
retsenzent; ASHEULOV, Ye.A., retsenzent; VLASOV, Ye.I., red.;
FIJKS, Ye.A., red. Izd-va; PARAKHINA, N.L., tekhn.red.

[Mechanization of silvicultural operations] Mekhanizatsiya
lesokhozistvennykh rabot. Moskva, Goslesbumizdat, 1960.
563 p. (MIRA 14:1)
(Forests and forestry--Equipment and supplies)

ASHENKOV, A., ins. podpolkovnik [translator]

Modern submarines. Nauka i tekhn mladezh no.8:14-15 Ag '57.

ASHEVSKIY, V.

Schools for foremen as a progressive form of teaching. Prof.-tekhn.obr.
20 no.11:27-28 N '63. (MIRA 17:1)

1. Nachal'nik otdela tekhnicheskogo obucheniya Nishne-Tagil'skogo
metallurgicheskogo kombinata im. V.I.Lenina, Sverdlovskaya obl.

ASHEVSKIY, V.

Methodological work at a plant. Prof.-tekhn. obr. 22 no.9143-45 S
'65. (MIRA 18:9)

1. Nachal'nik otdela tekhnicheskoy ucheby Nizhne-Tagil'skogo metal-
lurgicheskogo kombinata im. V.I.Lenina.

ASHIK, V.

Finansovye rezul'taty eksploatatsii russkoi zhelieznodorozhnoi sieti za poslednee trekhlietie (1907, 1908 i 1909 gg). /The financial results of operation of the Russian railroad network for the past three years (1907, 1908, 1909). S.-Peterburg, 1911. 564 p. illus. (incl. port.)

DLC: HE3138.A8

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress,
Reference Department, Washington, 1952, Unclassified.

BYKHOVSKIY, Izrail' Adol'fovich; BELLI, V.A., prof., kontr-admiral,
retsenzent; ZALESSKIY, N.A., kand. tekhn. nauk, retsenzent;
ASHIK, V.V., prof., red.; KAZAROV, Yu.S., red.; SHISHKOVA,
L.M., tekhn. red.

[Experts on ships: S.O.Burachek, A.A.Popov, I.F.Aleksandrovskii,
S.K.Dzheretskii] Korabel'nykh del mastera: S.O.Burachek, A.A.Popov,
I.F.Aleksandrovskii, S.K.Dzhevetskii. Pod red. V.V.Ashika. Leningrad,
Gos.soiuznoe izd-vo sudostroit.promyshl., 1961. 215 p.

(MIRA 14:12)

(Shipbuilding)

ASHIK, V.V., prof.

Designing timber-carrying ships. Sudostroenie 27 no.11:15-16
N '61. (MIRA 15:1)

1. Chlen redaktsionnoy kollegii zhurnala "Sudostroyeniye."
(Freighters)

DORMIDONTOV, Nikolay Konstantinovich, doktor tekhn. nauk, prof.;
LYSENKO, Lavr Georgiyevich, kand. tekhn. nauk; PAVLOV,
Aleksandr Ivanovich, dots., kand. tekhn. nauk; TERENT'YEV,
Georgiy Borisovich, kand. tekhn. nauk; SHMUYLOV, Nikolay
Leonidovich, st. prepod. inzh.; Prinimal uchastiye KUZNETSOV, V.P.,
kand.tekhn.nauk;dots.; SHOLYAKOV,B.N.,dots.,retsenzent;GRINBAUM,A.F.,
inzh.retsenzent;VARENOK,P.G.,inzh.,retsenzent;ASHIK,V.V.,red.;VOLCHOV,
K.M., tekhn.red.

[Design and arrangement of ships for inland navigation]Kon-
struktsiya i ustroistvo sudov vnutrennego plavaniia. Pod ob-
shchei red. N.K.Dormidontova. Leningrad, Izd-vo "Rechnoi
transport," Pt.2. [Metal ships]Metallicheskie suda. 1962.
271 p. (MIRA 15:12)

Il. Kafedra arkhitektury i proyektirovaniya korablya Lenin-
gradskogo instituta vodnogo transporta (for Dormidontov,
Lysenko, Pavlov, Terent'yev, Shmuylov, Kuznetsov).

(Naval architecture)
(Ships, Iron and steel)

BENUA Yuliy Yul'yevich; KORSAKOV, Vadim Mikhaylovich; ABDEYEV, G.K.,
kand. tekhn. nauk, retsenzent; LEPINSKIY, V.A., inzh.,
retsenzent; ASHIK, V.V., prof., nauchnyy red.; STOLYARSKIY,
L.L., red.; KRYAKOVA, D.M., tekhn. red.

[Vessels on an air cushion] Suda na vozдушной подушке. Lenin-
grad, Sudpromgiz, 1962. 119 p. (MIRA 16:3)
(Ground-effect machines)

ASHIK, V.V., prof.

Interpolation method of making theoretical drawings. Sudostroenie
28 no.2:9-11 F '62. (MIRA 15:3)
(Naval architecture)

ASHIK, V.I., prof.

M.V.Lomonosov and the sea. Sudostroenie 28 no.3:77-78 Mr
'62. (MIRA 15:4)
(Lomonosov, Mikhail Vasil'evich, 1711-1765)

ZVONKOV, V.V.; ASHIK, V.V., prof.; BAZILEVSKIY, A.N., kand.tekhn.nauk;
PLENKO, Yu.A., inzh.

Plan for making use of the wave energy for ship propulsion.
Sudostroenie 28 no.6:25-26 Je '62. (MIRA 15:6)

1. Chlen-korrespondent Akademii nauk SSSR (for Zvonkov).
2. Chlen redaktsionnoy kollegii zhurnala "Sudostroyeniye" (for Ashik).
3. Institut hidrologii i hidrotekhniki AN USSR (for Bazilevskiy).
(Ship propulsion) (Waves)

ASHIK, V.V., prof.

Significance of the idea of an improved I.G. Nikulin prototype
for differential methods of determining the principal dimensions
and the displacement of a ship. Sudostroenie 29 no.4:13-15 Ap
'63. (MTRI 16:4)

(Naval architecture) (Displacement (Ships))

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ASHIK, V.V., prof.

Applying the method of least squares in the experimental
determination of initial stability. Sudostroenie 29 no.8:
24-26 Ag '63. (MIRA 16:10)

(Stability of ships)

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CIA-RDP86-00513R000102320018-4"

BAZILEVSKIY, Sergey Aleksandrovich; ASHIK, V.Y., prof., doktor
tekhn. nauk, retsenzent; VAKS, A.I., inzh., retsenzent;
REYNOV, M.N., nauchn. red.; OSVENSKAYA, A.A., red.;
KRYAKOVA, D.M., tekhn. red.

[Theory of errors occurring during the design of ships]
Teoriia oshibok voznikaiushchikh pri proektirovaniu su-
dov. Leningrad, Izd-vo "Sudostroenie," 1964. 261 p.
(MIRA 17:3)

GANF, Lev Abovich; DMITRIYEV, Aleksandr Nikolayevich; ASRIK, V.V.,
prof., retsentent; GLUSHCHENKO, G.T., inzh., retsentent;
STOLYARSKIV, L.L., nauchn. red.; IENGOVA, Ye.M., red.

[The path of the ship] Put' korablia. Leningrad, Sudostroenie, 1964. 257 p.
(MIRA 18:2)

ASHIKHMIN, A.D.; BOLTACHEV, G.M., veterinarnyy fel'dsher

Treating sheep during botfly infestations. Veterinariia 36
no.1:43-44 Ja '59. (MIRA 12:1)

1. Zaveduyushchiy veterinarnym uchastkom, Krasnogorskiy rayon,
Udmurtskaya ASSR (for Ashikhmin).
(Sheep--Diseases and pests) (Botflies)

ASHIKHMIN, A.K.; BUKANOV, M.A.; DLUGACH, B.A.; DUBROSEL'SKIY, K.N., inzhener;
KOSTRIKIN, A.A.; LKBEDINA, T.P., NIKITIN, V.D.; PAREMOV, Ya.D.;
NIKITINA, V.D., professor, redaktor; GULIN, Ya.P., redaktor; VERINA,
G.P., tekhnicheskiy redaktor

[Handbook for hump yard workers] Rukovodstvo rabotnikam sortirovoch-
noi gori. Moscow, Gos. transp. zhel-dor. izd-vo, 1950. 222p
[Microfilm] (MLRA 10:1)

1. Russia (1923- U.S.S.R.) Ministerstvo putey soobshcheniya
(Railroads--Hump yards)

ПИСАНКО, А.С.

ПИСАНКО, А.С.; АШУХИН, А.К.; ДЛУГАЧ, В.А., redaktor; КАНДЫКИН, А.Я.,
tekhnicheskiy redaktor

[Experience of operators working in mechanized railroad hump
yards] Peredovoi opyt operatorov mekhanizirovannykh sortirovoch-
nykh gorok. Moskva, Gos. transport. zhelezodorozhnoe izd-vo,
1951. 27 p. [Microfilm] (MLRA 7:10)
(Railroads--Making up trains)

YEVDOKIMOV, I.I.; ALEKSNYEV, V.D.; ASHIKMIN, A.K.; BAYEV, N.V.; BINGLAR'YAN, P.A.; BYCHKOV, I.A.; VESLOVA, Ye.T.; VYZHEKHOVSKAYA, M.P.; GURETSKIY, S.A.; DEMIDOV, I.M.; YESIPOV, Ye.P.; ZHUKOV, V.D.; ZELINSKIY, M.G.; ZOL'NIKOV, F.T.; ZOLOTOVA, L.I.; KIVIN, A.N.; KOMARNITSKIY, Yu.A.; KONSTANTINOV, A.N.; KUL'CHITSKAYA, A.K.; MAKSIMENKO, I.I.; MELENT'YEV, A.A.; MOROZOV, I.G.; MURZINOV, M.I.; OZEMBLOVSKIY, Ch.S.; OISTRYAKOV, K.I.; PANINA, A.A.; PAVLOVSKIY, V.V.; PERMINOV, A.S.; PERSHIN, B.F.; PRONIN, S.F.; PSHENNYY, A.I.; POKROVSKIY, M.I.; RASPONOMAREV, Ye.A.; SEMIN, I.N.; SKLYAROV, Yu.N.; TIBABSHEV, A.I.; FARBEROV, Ya.D.; FEDOROV, G.P.; SHUL'GIN, Ya.S.; YAKIMOV, I.A.; VERINA, G.P., tekhn.red.

[Labor feats of railway workers; stories about the innovators]
Trudovye podvigi zhelezodorozhnikov; rasskazy o novatorakh, Moskva,
Gos.transp.shel-dor.izd-vo, 1959. 267 p. (MIRA 12:9)
(Railroads) (Socialist competition)

SADIKOV, F.P.; LEBEDEVA, T.P.; KORSH, V.B.; BELENOV, V.K.; PETRUNENKOV, A.Ya.;
TISHKOV, L.B.; ASHIKHMIN, A.K., inzh., rotsenzen; PREDE, V.Yu.,
inzh., red.; VOROTNIKOVA, L.F., tekhn.red.

[Technological equipment of railroad stations] Tekhnicheskoe
osnashchenie stantsii. Moskva, Transsheldorizdat, 1963.
153 p. (MTRA 16:6)

(Railroads--Stations)
(Railroads--Equipment and supplies)

ASHIKMIN, A.K., inzh.

New system of numbering freight cars. Zhel.dor.transp. 45 no.9:65-66
S '63. (MIRA 16:9)
(Railroads—Freight cars)

KASHIN, A.S.; ASHIKHMEN, A.V.

Preventing lambs and sheep from eating wool. Veterinarija 41 no.3:62
Mr '64. (MIRA 18:1)

1. Nachal'nik veterinarnogo otdela Ministerstva proizvodstva i
zagotovok sel'skokhozyavstvennykh produktov Udmurtskoy ASSR (for
Kashin). 2. Glavnyy veterinarnyy vrach Krasnoakarskoy veterinarnoy
lechebnitay, Udmurtskaya ASSR (for Ashikhmin).

ASHIKHMIN, D.A., inzh.; VERETENNIKOV, V.F., inzh.; GLAVYRIN, I.A., inzh.;
D'YAKOV, A.G., inzh.; MINGALEV, Yu.A., inzh.

Scraper conveyor with a bottom carrying arm for hauling hard,
large-size ore. Gor.zhur. no.10:54-55 O '64.

(MIRA 18:1)

l. Nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut
gornogo i obogatitel'nogo mashinostroyeniya, Sverdlovsk.

ASHIKHMIN, D.A., inzh.; MINGALEV, Yu.A., inzh.

Industrial testing of a bottom loading belt scraper conveyor.
Izv.vys.ucheb.zav.; gor.zhur. 8 no.11:105-109 '65.

(MIRA 19:1)

1. Nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut
gornogo i obogatitel'nogo oborudovaniya. Rekomendovana kafedroy
rudnichnogo transporta Sverdlovskogo gornogo instituta. Submitted
April 14, 1965.

ASHIKHMIN, F. V.

AUTHOR: PIOTRKOVSKIY, G.G. and ASHIKHMEN, F.V. PA - 2372

TITLE: Automatic Control of the Blast Furnace Operation. (Avtomati-
cheskoye regulirovaniye khoda domennykh pechey, Russian).

PERIODICAL: Stal', 1957, Vol 17, Nr 1, pp 16 - 20 (U.S.S.R.)

Received: 5 / 1957

Reviewed: 5 / 1957

ABSTRACT: Of the measures which led to an increase of indices the following are given: Increase of pressure in the blast furnaces, on an average of 0,7 atm. overpressure, increase of blast-temperature from 568 to 804°, increase of the agglomerate-consumption from 69 to 88,5 %, application of moistened blasting, reduction and finally complete exclusion of manganese ore on the occasion of the melting of the recast cast iron. An essential part is played also by the automatization of the production processes. Hydraulic regulators which act on the throttle are used for the control of the pressure of pure gas. For the control of combustion-temperature in the air preheater the gas-supply to the burners at practically constant airconsumption is changed by the application of an electric three-position-three-fourpoint-intermittent-regulator. For the control of the temperature of hot blasting a type-scheme is used. The essential difference in the operation of the combine of Magnitogorsk and others consists in the endeavors to heat the furnace steadily and to keep heating constant by means of a modification of the moisture-content on the occasion of blasting. The moisture-pro-

Card 1/2

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Automatic Control of the Blast Furnace Operation.

ducer developed in the works differs from other psychrometers by the lack of a wick-system. The moist thermometer is splashed with the fine water spray of the pulverizer. The psychrometer has regulators for the maintenance of pressure-constancy, air-temperature-constancy, and water-level-constancy. The pressure of the blast-furnace-gas is also automatically controlled, a fact which leads to a production-rise of 5 %. Electric intermittent regulators are used for this purpose. A safety system for the required pressure of the blast-furnace-gas in the intermediate bell type distributing gear is used for the automatic protection of work in the large furnace-top bell which is controlled by a mercury-contact-monometer. (7 illustrations)

ASSOCIATION: Metallurgic Combine of Magnitogorsk.

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Card 2/2

Ashikhmin, F.V.

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AUTHORS: Seppar, A.M., Bukhanets, P.S., Ashikhmin, F.V., Lipkin, D.S. and Zolotukhin, A.I.

TITLE: Automatic Control of Heating Conditions of Coke Ovens
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ABSTRACT: Basic theoretical calculations and results of the operation of the No.5 (automatically controlled) and No.6 (manually controlled) coke oven batteries on the Magnitogorsk Metallurgical Combine (Magnitogorskiy Metallurgicheskiy Kombinat) are described. The diagram of the automatic control used is given in Fig.1. The scheme was proposed by F.V. Ashikhmin, head of KIP and Automatics of the MMK. The control of heating conditions was based on the following principles:

1) the content of oxygen in the waste gas was kept constant by variations in the proportion of coke oven gas supplied to the mixture of coke oven - blast furnace gas. 2) The total volume of coke oven and blast furnace gases used for the heating of the battery was kept constant. 3) The calorific value and composition of coke oven gas were assumed as being constant.

Cardl/2 The duration of the test period, April 1st to 15th, 1957. On